

FUEL CELL STRUCTURE

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ABSTRACT OF THE DISCLOSURE

10 A fuel cell generates electric power when the solid
oxide type fuel cell element is arranged in a flame or in
a portion close to the flame, and the durability of the
fuel cell is high. A fuel cell 10 for generating
electricity when the solid oxide type fuel cell 15, in
which a cathode layer 11 is formed on one face of a solid
electrolyte layer 13 and an anode layer 12 is formed on
15 the other face of the solid electrolyte layer 13, is
arranged in a flame 20 or in a portion close to the flame
20, wherein the solid electrolyte layer 13 is made of
porous material, the porosity of which is not less than
10%, so that cracks can not be caused on the solid
20 electrolyte layer 13 by a sudden temperature change in
the solid oxide type fuel cell 15 when the solid oxide
type fuel cell 15 is arranged in the flame 20 or in a
portion close to the flame 20 or when the solid oxide
type fuel cell 15 is separated from the flame 20 or the
25 portion close to the flame 20.